

16

## RAW SEQUENCE LISTING

DATE: 08/10/2001

PATENT APPLICATION: US/09/435,257B

TIME: 12:13:07

Input Set : A:\385A US.ST25.txt

Output Set: N:\CRF3\08102001\I435257B.raw

3 <110> APPLICANT: President and Fellows of Harvard College  
 5 <120> TITLE OF INVENTION: FK506-based regulation of biological events  
 7 <130> FILE REFERENCE: ARIAD 385A US  
 9 <140> CURRENT APPLICATION NUMBER: US 09/435,257B  
 C--> 10 <141> CURRENT FILING DATE: 1999-11-05  
 12 <160> NUMBER OF SEQ ID NOS: 34  
 14 <170> SOFTWARE: PatentIn version 3.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 14  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Artificial Sequence  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: BINDING  
 23 <222> LOCATION: (1)..(14)  
 24 <223> OTHER INFORMATION: membrane binding domain  
 27 <400> SEQUENCE: 1  
 29 Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg  
 30 1 5 10  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 4  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: BINDING  
 39 <222> LOCATION: (1)..(4)  
 40 <223> OTHER INFORMATION: organelle targeting domain  
 43 <400> SEQUENCE: 2  
 45 Lys Asp Glu Leu  
 46 1  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 4  
 50 <212> TYPE: PRT  
 51 <213> ORGANISM: Artificial Sequence  
 53 <220> FEATURE:  
 54 <221> NAME/KEY: BINDING  
 55 <222> LOCATION: (1)..(4)  
 56 <223> OTHER INFORMATION: organelle targeting domain  
 59 <400> SEQUENCE: 3  
 61 His Asp Glu Leu  
 62 1  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 42  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Artificial Sequence  
 69 <220> FEATURE:  
 70 <221> NAME/KEY: misc\_structure  
 71 <222> LOCATION: (1)..(42)

ENTERED

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72 <223> OTHER INFORMATION: hCNA cloning oligo.12
75 <400> SEQUENCE: 4
76 cgggcccccc ctcgagtcta cgaccgacag ggtggtgaaa gc 42
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 41
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <221> NAME/KEY: misc_structure
86 <222> LOCATION: (1)..(41)
87 <223> OTHER INFORMATION: hCNA cloning oligo.340
90 <400> SEQUENCE: 5
91 atataaatcg ctcgagccat actggcttcc aaatttcattg g 41
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 44
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <221> NAME/KEY: misc_structure
101 <222> LOCATION: (1)..(43)
102 <223> OTHER INFORMATION: hCNA cloning oligo.350
105 <400> SEQUENCE: 6
106 aatataaatcg ctcgagttta cttgggtccct tccatttggt gggg 44
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 58
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <221> NAME/KEY: misc_structure
116 <222> LOCATION: (1)..(58)
117 <223> OTHER INFORMATION: hCNA cloning oligo.370
120 <400> SEQUENCE: 7
121 ccagtagggg ctagatctgg gccacgata taagtcgacg ttgaggacat ttaccagc 58
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 9
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <221> NAME/KEY: misc_structure
131 <222> LOCATION: (1)..(9)
132 <223> OTHER INFORMATION: overlapping XbaI and BglII sites
135 <400> SEQUENCE: 8
136 tctagatct 9
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 63
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <221> NAME/KEY: misc_structure

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146 <222> LOCATION: (1)..(63)
147 <223> OTHER INFORMATION: hCNA cloning oligo.394
150 <400> SEQUENCE: 9
151 ttaatctaga tcttcacttg tcctcgatcat ctttatagtc gacctctttc cgggctgcag      60
153 ctg      63
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 41
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <221> NAME/KEY: misc_structure
163 <222> LOCATION: (1)..(41)
164 <223> OTHER INFORMATION: hCNB cloning oligo.2
167 <400> SEQUENCE: 10
168 atataaatcg ctcgaggga atgaggcaag ttatcctttg g      41
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 38
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <221> NAME/KEY: misc_structure
178 <222> LOCATION: (1)..(38)
179 <223> OTHER INFORMATION: hCNB cloning oligo.3
182 <400> SEQUENCE: 11
183 atataaatcg ctcgagaatg aggcaagtta tccttttg      38
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 65
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <221> NAME/KEY: misc_structure
193 <222> LOCATION: (1)..(65)
194 <223> OTHER INFORMATION: hCNB/FLAG cloning oligo
197 <400> SEQUENCE: 12
198 ttaatctaga tctgggccct cacttgatcat cgtcatcttt atagtcgacc acatctacca      60
200 ccac      65
203 <210> SEQ ID NO: 13
204 <211> LENGTH: 116
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <221> NAME/KEY: misc_structure
210 <222> LOCATION: (1)..(116)
211 <223> OTHER INFORMATION: hCNA template linkers
214 <400> SEQUENCE: 13
215 cgatttatat gggccctcta gatctagaac cagaaccaga accagaacca gaaccagaac      60
217 cagaaccaga accagaacca ccagaaccag aaccacggtt gaggacattt accagc      116
220 <210> SEQ ID NO: 14
221 <211> LENGTH: 58

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222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <221> NAME/KEY: misc_structure
227 <222> LOCATION: (1)..(58)
228 <223> OTHER INFORMATION: CNA-CNB linker oligo.1
231 <400> SEQUENCE: 14
232 gaatcgcaaa tctagatctg ggcccgatcat ctttatagtc gacaccagaa ccagaacc      58
235 <210> SEQ ID NO: 15
236 <211> LENGTH: 58
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <221> NAME/KEY: misc_structure
242 <222> LOCATION: (1)..(58)
243 <223> OTHER INFORMATION: CNA CNB linker oligo.2
246 <400> SEQUENCE: 15
247 gaatcgcaaa tctagatctg ggcccgatcat ctttatagtc gacagaacca gaaccaga      58
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 72
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <221> NAME/KEY: misc_signal
257 <222> LOCATION: (1)..(72)
258 <223> OTHER INFORMATION: CNA 370 linker oligo
261 <400> SEQUENCE: 16
262 ggtgggtctg gttctgggtg ttctggttct ggttctggtt ctggttctgg ttctgggttct      60
264 ggttctggtt ct      72
267 <210> SEQ ID NO: 17
268 <211> LENGTH: 24
269 <212> TYPE: PRT
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <221> NAME/KEY: PEPTIDE
274 <222> LOCATION: (1)..(24)
275 <223> OTHER INFORMATION: CNA 370 linker
278 <400> SEQUENCE: 17
280 Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Ser Gly Ser
281 1          5          10          15
283 Gly Ser Gly Ser Gly Ser Gly Ser
284          20
286 <210> SEQ ID NO: 18
287 <211> LENGTH: 21
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <221> NAME/KEY: misc_feature
293 <222> LOCATION: (1)..(22)

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294 <223> OTHER INFORMATION: CNA primer.1
297 <400> SEQUENCE: 18
298 gtcgacagaa ccagaaccag a                               21
301 <210> SEQ ID NO: 19
302 <211> LENGTH: 21
303 <212> TYPE: DNA
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <222> LOCATION: (1)..(22)
309 <223> OTHER INFORMATION: CNA primer.2
312 <400> SEQUENCE: 19
313 gtcgacacca gaaccagaac c                               21
316 <210> SEQ ID NO: 20
317 <211> LENGTH: 6
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (1)..(6)
324 <223> OTHER INFORMATION: Sall Site
327 <400> SEQUENCE: 20
328 gtcgac                                                6
331 <210> SEQ ID NO: 21
332 <211> LENGTH: 5
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <221> NAME/KEY: PEPTIDE
338 <222> LOCATION: (1)..(5)
339 <223> OTHER INFORMATION: GS linker repeats
342 <400> SEQUENCE: 21
344 Gly Gly Ser Gly Ser
345 1          5
347 <210> SEQ ID NO: 22
348 <211> LENGTH: 4
349 <212> TYPE: PRT
350 <213> ORGANISM: Artificial Sequence
352 <220> FEATURE:
353 <223> OTHER INFORMATION: mature CAB peptide fragment
355 <220> FEATURE:
356 <221> NAME/KEY: PEPTIDE
357 <222> LOCATION: (1)..(4)
358 <223> OTHER INFORMATION: mature CAB fragment
361 <400> SEQUENCE: 22
363 Val Asp Thr Ser
364 1
366 <210> SEQ ID NO: 23
367 <211> LENGTH: 66

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VERIFICATION SUMMARY

DATE: 08/10/2001

PATENT APPLICATION: US/09/435,257B

TIME: 12:13:08

Input Set : A:\385A US.ST25.txt

Output Set: N:\CRF3\08102001\I435257B.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31

L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

**STATISTICS SUMMARY**

PATENT APPLICATION: US/09/435,257B

DATE: 08/10/2001

TIME: 12:13:08

Input Set : A:\385A US.ST25.txt

Output Set: N:\CRF3\08102001\I435257B.raw

Application Serial Number: US/09/435,257B

Alpha or Numeric: Numeric

Application Class:

Application File Date: 11-05-1999

Art Unit:

Software Application: PatentIn

Total Number of Sequences: 34

Total Nucleotides: 1376

Total Amino Acids: 55

Number of Errors: 0

Number of Warnings: 2

Number of Corrections: 1

**MESSAGE SUMMARY**

271 C: 1 (Current Filing Date differs)

341 W: 2 ((46) "n" or "Xaa" used)